

IN THE CLAIMS:

Please add new claims 64 - 67 as follows:

64. A system for use during a medical or surgical procedure on a body, said system generating a display representing the position of one or more body elements during the procedure based on scans taken of the body by a scanner prior to the procedure, the scan having reference points for each of the body elements, the reference points of a particular body element having a known spatial relation to the particular body element, said system comprising:

means for identifying, during the procedure, the position of the reference points of each of the body elements to be displayed wherein said identifying means comprises a reference array having a location outside the body for providing a reference, means for determining the position of the reference points of the body elements to be displayed relative to the reference array, a fluoroscopic device for determining a position of a projection of each of the body elements during the procedure;

a processor modifying the image data set according to the identified position of the reference points during the procedure, as identified by the identifying means, said processor generating a displaced image data set representing the position and geometry of the body element(s) during the procedure, said processor comparing the position of the projection of each of the body elements during the procedure to the position of the projection of each of the body elements prior to the procedure; and

a display utilizing the displaced image data set generated by the processor, illustrating the position and geometry of the body element(s) during the procedure.

65. The system of claim 64 wherein the fluoroscopic device comprises a fluoroscopic tube in fixed relation to a fluoroscopic plate between which the body elements are located for determining a position of a projection of each of the body elements during the procedure and wherein the processor compares the position of the projection of each of the body elements during the procedure to the position of the projection of each of the body elements prior to the procedure.

66. The system of claim 65 wherein said fluoroscopic tube or said fluoroscopic plate each have emitters thereon in communication with the reference array and wherein the determining means is adapted to determine the position of the tube and plate relative to the reference array whereby the position of the projection of each body element can be determined.

67. The system of claim 65 wherein said reference array has emitters thereon in communication with the fluoroscopic tube or the fluoroscopic plate and wherein the determining means is adapted to determine the position of the tube or plate relative to the reference array whereby the position of the projection of each body element can be determined.